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Patent Abstract

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GER 1992-11-12 4115508 Thermoplastic polyurethane
 elastomers prodn. with improved hydrolysis and wear
 resistance - by adding further diisocyanate during
 thermoplastic processing, followed by heating
**ANNOTATED TITLE- VERFAHREN ZUR HERSTELLUNG
 VON HOCHMOLEKULAREN THERMOPLASTISCH
 VERARBEITBAREN POLYURETHANELASTOMEREN MIT
 VERBESSERTER HYDROLYSEBESTAENDIGKEIT UND
 VERBESSERTER VERSCHLEISSFESTIGKEIT**

INVENTOR- RISCHE THOMAS DE

APPLICANT- INST TECHNOLOGIE DER POLYMERE DE

PATENT NUMBER- 04115508/DE-A1

PATENT APPLICATION NUMBER- 04115508

DATE FILED- 1991-05-11

DOCUMENT TYPE- A1, DOCUMENT LAID OPEN (FIRST
 PUBLICATION)

PUBLICATION DATE- 1992-11-12

INTERNATIONAL PATENT CLASS- B29C07102;
 C08G01842; C08G01848; C08G01866; C08G01882;
 C08J00700; C08K00529; C08L07504; C08G01808R;
 C08G01810; C08G01810; C08G01882

PATENT APPLICATION PRIORITY- 4115508, A

PRIORITY COUNTRY CODE- DE, Germany, Ged. Rep. of

PRIORITY DATE- 1991-05-11

FILING LANGUAGE- German

LANGUAGE- German NDN- 203-0279-9293-2

High-mol. wt. thermoplastic polyurethane (TPU) elastomers

(I) are prep'd. by adding 0.05-5 wt.% organic di-isocyanate (II) to a conventional TPU elastomer (III) during thermoplastic processing, and conditioning the moulding material obtd. for at least 1 hr. at 50-150 deg.C.

EXEMPLARY CLAIMS- 1. Procedure for the production of high-molecular thermoplastic processable PU elastomers marked by improved resistance to hydrolysis and improved abrasion resistance on actually well-known kunststoffverarbeitungsmaschinen, by the fact that conventional thermoplastic processable PU elastomers during a thermoplastic processing 0.05 to 5 mass portions in % of an organic Diisocyanats added, which is annealed developed molding material in the temperaturerange from 50 to 150"i C at least one hour. 2. Procedure according to requirement 1, by the fact characterized that 0.2 to 3 mass portions in % of the Diisocyanats is added. 4. Procedure according to requirement 1 to 3, by the fact characterized that as Diisocyanat an aliphatic and/or aromatic rings containing Diisocyanat and/or a diisocyanatfreisetzendeconnection and/or a isocyanate-scheduled Praepolymer with a molecular mass are added of less than 5000. 5. Procedure according to requirement 1 to 4, by the fact characterized that the added Diisocyanat 4.4-Diphenylmethandiisocyanat is. 6. Procedure according to requirement 1 to 5, by the fact characterized that the added Diisocyanat contains 0 to 60 mass portions in % of a high-functional isocyanate. 7. Procedure according to requirement 1 to 6, by the fact characterized that the organic Diisocyanat in firm or liquid form is proportioned in the charging hole and/or the feeding zone or in another suitable place of extrusion and/or the jet moulding machine into the polymer melt. 8. Procedure according to requirement 1 to 7, by the fact characterized that the organic Diisocyanat to conventional thermoplastic processable PU elastomers before the actual processing process outside of the processing machinemetered and the moistened granulates is supplied to the processing process in actually well-known way. X DE 41 15 508 AI 9. Procedure according to requirement 1 to 8, by the fact characterized that after conclusion actual processing-and/or the final shaping process, which is

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